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- (71) Applicant: AT&T Corp.

 New York, NY 10013-2412 (US)
- (72) Inventors:
 - Baumbach, Joerg
 New Providence, New Jersey 07974 (US)

- Katz, Howard Edan
 Summit, New Jersey 07901 (US)
- Dodabalapur, Ananth Millington, New Jersey 07946 (US)
- (74) Representative:

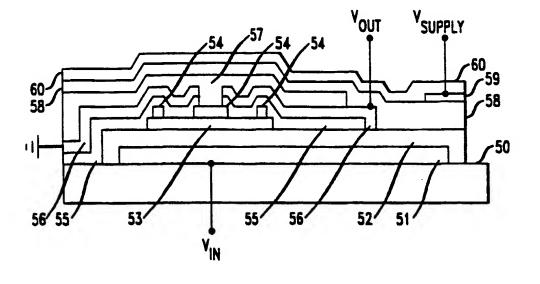
Watts, Christopher Malcolm Kelway, Dr. et al Lucent Technologies (UK) Ltd, 5 Mornington Road Woodford Green Essex, IG8 0TU (GB)

(54) Circuit comprising complementary thin film transistors

(57) In preferred embodiments of the invention, the n-channel inorganic TFTs have an amorphous Si active layer (53), and the p-channel organic TFTs have α -hexathienylene (α - 6T) active layer (58). Complementary

inverters according to the invention are disclosed, as is an exemplary processing sequence that can be used to manufacture integrated complementary inverters and other complementary circuits according to the invention.

FIG. 9





EUROPEAN SEARCH REPORT

Application Number

	DOCUMENTS CONSIDE	RED TO BE RELEVANT			
Category	Citation of document with ind of relevant passa		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)	
Ρ,Χ	DODABALAPUR A ET AL: organic/inorganic co APPLIED PHYSICS LETT AIP, USA, vol. 68, no. 16, ISS pages 2246-2248, XPO * the whole document	mplementary circuits" ERS, 15 APRIL 1996, N 0003-6951, 02055715	1,2,4-6	H01L51/20 H01L51/30 H01L27/12	
E	US 5 612 228 A (SHIE * column 2, line 3 - claims 1-18; figures		1,2,4-6		
A	PATENT ABSTRACTS OF vol. 014, no. 016 (E & JP 01 259563 A (M CORP), 17 October 19 * abstract *	:-872), 12 January 1989 HITSUBISHI ELECTRIC	1,2,4		
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	The present search report has to present	peen drawn up for all claims Date of completion of the search		Expressor	
	THE HAGUE	16 February 1998	Kö	nigstein, C	
THE HAGUE CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A lechnological background O : non-written disclosure P : intermediate document		T: theory or princip E: earlier patent do after the filling da ber D: document cited: L: document cited:	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filling date D: document cited in the application L: document cited for other reasons 8: member of the same patent family, corresponding		